Name _____

Song Bird STEM Science

Crush Disability Stereotypes with STEM Science

Amy Hillcrest, Song Bird's side-kick is a smart, science-minded engineer. (**STEM**) She just happens to be a girl with a disability who invents and designs modifications to her wheelchair.

Amy crushes both girl stereotypes and disability stereotypes

Focus on Amy Hillcrest's character

1. **How does Amy improve her wheelchair?**

    _____

    _____

2. **How does Amy help Song Bird AKA Rosella Ava Bird?**

    _____

3. **What positive message does Amy give about disability?**

    _____

4. **Name books with positive characters with disabilities**

    _____

5. **Draw Amy in her SUPER wheelchair. Label the SUPER parts.**

STEM SCIENCE Super Powers

SPACE … Hands on STEM Science activities.

- **Build a simple rocket.** How did it launch?
- **Build a simple paper aeroplane.** How does it stay off the ground? How can you make it go faster? … Higher?...Go further?

https://au.pinterest.com/vivifystem/space-stem-activities/

SUPER POWERS … Hands on STEM Science activities.

- How can SUPER powers be explained by STEM science?
- How does Song Bird fly? How does she lift up off the ground? How does she move?
- How is singing produced by your vocal chords? How is singing explained by science?
- How do you sing louder? higher? Hold a note for longer?
- How could singing shatter windows?
- How did Leonardo da Vinci build his flying machines? How do they work?

STEM ACTIVITIES

1. **Problem solving:** Creative play
   eg What can you build with a straw, an elastic band and a paddle pop stick
2. **Inventions**… Science Fair
3. **Paper aeroplanes** Races: best design
4. **Parachute Race**
5. **Force vs Speed** flight acceleration
6. **Space**
7. **History of Flight**

Links: STEM Science & Superpowers

10 Inventions that gave us Superpowers:
http://scienceonthego.griffith.edu.au/superpowers/

Science of Super Powers
http://www.stemfinity.com/The-Science-Of-Super-Powers-Camp

Science of Superpowers VIDEO **https://www.youtube.com/watch?v=JMhew8yRjvA**

Superpowers on Wiki
http://powerlisting.wikia.com/wiki/Superpower_Wiki